

RESULT 11
US-10-369-493-15113
; Sequence 15113, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 15113
; LENGTH: 467
; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens
US-10-369-493-15113

Query Match 7.1%; Score 95; DB 6; Length 467;
Best Local Similarity 20.5%; Pred. No. 1.1;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
QY 14 LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSFLDHSGL----- 52
Db 179 VGILHTGVPHYWGAEAGETELEFSKRRAAELEALILREGPDTIGAFIAEPVLGTGGITP 238
QY 53 -----MFEQIDGIISSVV-----PPIMFALERMCCKYFH 82
Db 239 PPEGYWPAIQEVLLKKYDVLIIADEVITGFGRTGSMFGSQHYGIEPDLITVAKGLTSAYFP 298
QY 83 IEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAIIHLY-GNPLIVVDFGTATTTCYID- 140
Db 299 LSGAIVGEKVIYTM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGGAIAPGITISTEALYSRAAKLPRIETRPDNIIGKNTVVSAMQSGILFGYVQ 199
Db 345 VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
Db 387 IEFVADREKKTFRFAPHLTVGARVSKAARNGGLIARAMPHGDIILGFAPPLVTTK 439

RESULT 12
US-10-369-493-14218
; Sequence 14218, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 14218
; LENGTH: 467
; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens
US-10-369-493-14218

Query Match 7.0%; Score 94; DB 6; Length 467;

Best Local Similarity 20.5%; Pred. No. 1.4;
Matches 60; Conservative 42; Mismatches 97; Indels 94; Gaps 13;
QY 14 LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSFLDHSGL----- 52
Db 179 VGILHTGVPHYWGAEAGETELEFSKRRAAELEALILREGPDTIGAFIAEPVLGTGGITP 238
QY 53 -----MFEQIDGIISSVV-----PPIMFALERMCCKYFH 82
Db 239 PPEGYWPAIQEVLLKKYDVLIIADEVITGFGRTGSMFGSQHYGIEPDLITVAKGLTSAYFP 298
QY 83 IEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAIIHLY-GNPLIVVDFGTATTTCYID- 140
Db 299 LSGAIVGEKVIYTM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI 344
QY 141 -ENKQYMGGAIAPGITISTEALYSRAAKLPRIETRPDNIIGKNTVVSAMQSGILFGYVQ 199
Db 345 VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA 386
QY 200 VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTLK 244
Db 387 IEFVADREKKTFRFAPHLTVGARVSKAARNGGLIARAMPHGDIILGFAPPLVTTK 439

RESULT 13
US-10-369-493-17640
; Sequence 17640, Application US/10369493
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 17640
; LENGTH: 828
; TYPE: PRT
; ORGANISM: Xylella fastidiosa
US-10-369-493-17640

Query Match 6.9%; Score 91.5; DB 6; Length 828;
Best Local Similarity 23.7%; Pred. No. 5.9;
Matches 63; Conservative 45; Mismatches 81; Indels 77; Gaps 17;
QY 25 HWRIE-----TSRHK-----EDEFGMILRSFLDHSGL-MFEQIDGIII 62
Db 184 HWRMQHPQRRVVVTGTVASDRTGRAITLGRNGSDYSGAIFAALFEADELHIWTDVDGVS 243
QY 63 SS--VVPPIM---FALERMC-TKYFH---IEPQIVGPGMKTGLNIKYDNPKEVG----- 107
Db 244 ADPRVVPDAVQDALSDEACELAYFGAKVVVHPQTMSPPVMKRGVPIIIRNTFPQHPGTR 303
QY 108 --ADRVN-----AVAAIHLGNPLIVVDFGTATTTCYIDENKQYMGGAIAPG-- 153
Db 304 ITADSVVSGSVKGLTSLSPGLAVLNLEGTGLIGVP-GTAERVFAALRNARLSVVMISQSS 362
QY 154 -----ITISTEA-----LYSRAKL-----PRIETRPDNIIGKNTVVSAMQSGILFG 195
Db 363 EHSICCVVHQTEAERARDALLYAFAHELAIGHVQRVOLT--NNI---SVLAAVGDG-MAG 416
QY 196 YVGQVEGIVKRMKQWAKQDLKVIATG 221
Db 417 HLGVAARLFESLR-RAHVNILAIAQG 441

RESULT 14

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; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57505
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Enterococcus faecium
US-10-282-122A-57505

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Query Match      7.2%; Score 95.5; DB 6; Length 242;
Best Local Similarity 22.7%; Pred. No. 0.35;
Matches 64; Conservative 35; Mismatches 94; Indels 89; Gaps 13;

QY 3 LVIDVGNNTVLG-VYHDGKLEYHWRIETSRHKTEDEFGMILRSLFDHSGLMFEQIDGII 61
Db 4 LAIDIGGTNLKYGVSDGHLQLQHTIPVPTNYD-----LLQKITAIY 47

QY 62 ISSVVPPIMFALERMCTKYFHIEPQIVGPGMKT-GLNIKYDNPKEVGADRIVNAVAIHL 120
Db 48 LSS-----ENILGVGISPGI--YD---MKSNNRITGSSALKYL 80

QY 121 YGNPLIV-VDFGTATTYC-----YIDENKQY-----MGAIAPGITISTE 159
Db 81 IGRPLKADISWALNTITVAIENDGNCALLGEITWQCNCQYRSRSAIYVIGSAVGGSIQISDE 140

QY 160 AL-----YSRAAKLPRIETRPDNIIGKNTVSAM-----QSGILFGYVGVQVEGI 203
Db 141 ILRGANNAGELGYSLVDNLPSTD--KYSSLGGKIGFNALLKKINQQQYKF-----EN GK 193

QY 204 VKRMKWQAKQDLKVIATGGLAPLIANESCDIDVDPFLTLKG 245
Db 194 DLFLKSQTDRLKLEKLIIDELKYLASSLITLQYVIDPEVILIG 235

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RESULT 9
 US-10-369-493-11410
 ; Sequence 11410, Application US/10369493
 ; GENERAL INFORMATION:
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Hinkle, Gregory J.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Goldman, Barry S.
 ; APPLICANT: Chen, Xianfeng
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
 ; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
 ; FILE REFERENCE: 38-10(52052)B
 ; CURRENT APPLICATION NUMBER: US/10/369,493
 ; CURRENT FILING DATE: 2003-02-28
 ; PRIOR APPLICATION NUMBER: US 60/360,039
 ; PRIOR FILING DATE: 2002-02-21
 ; NUMBER OF SEQ ID NOS: 47374
 ; SEQ ID NO 11410
 ; LENGTH: 467
 ; TYPE: PRT
 ; ORGANISM: Agrobacterium tumefaciens
 US-10-369-493-11410

Query Match	7.1%;	Score 95;	DB 6;	Length 467;
Best Local Similarity	20.5%;	Pred. NO. 1.1;		
Matches	60;	Conservative 42;	Mismatches 97;	Indels 94; Gaps 13
QY	14	LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSLFDHSGL-----	52	
Db	179	VGILHTGVPHYWGAEAGETELEFSKRRAAELEALILREGPDTIGAFIAEPVLGTGGITP	238	
QY	53	-----MFEQIDGIIISVV-----PPIMFALERMCTKYFH	82	
Db	239	PPEGYWPAIQEVLLKYDVLIIADEVITGFGRTGSMFGSQHYGIEPDLITVAKGLTSAYFP	298	
QY	83	IEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAIAHLY-GNPLIVVDEGTATTYCYID-	140	
Db	299	LSCAIVGEKVYTVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAANAVLDI	344	
QY	141	-ENKQYMGGAIAPGITISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFGYVGQ	199	
Db	345	VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA	386	
QY	200	VEGIVKRMK-----WQAKODLKVIATGGLAPLIANESDCIDIVDPFLTLK	244	
Db	387	IEFVADREKKTREFAPHLTVGARVSKAARNGGLIARAMPHGDIILGAPPLVTTK	439	

RESULT 10
 US-10-369-493-14645
 ; Sequence 14645, Application US/10369493
 ; GENERAL INFORMATION:
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Hinkle, Gregory J.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Goldman, Barry S.
 ; APPLICANT: Chen, Xianfeng
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS
 ; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
 ; FILE REFERENCE: 38-10(52052)B
 ; CURRENT APPLICATION NUMBER: US/10/369,493
 ; CURRENT FILING DATE: 2003-02-28
 ; PRIOR APPLICATION NUMBER: US 60/360,039
 ; PRIOR FILING DATE: 2002-02-21
 ; NUMBER OF SEQ ID NOS: 47374
 ; SEQ ID NO 14645
 ; LENGTH: 467
 ; TYPE: PRN
 ; ORGANISM: Agrobacterium tumefaciens
 US-10-369-493-14645

Query Match	7.1%;	Score 95;	DB 6;	Length 467;
Best Local Similarity	20.5%;	Pred. No. 1.1;		
Matches 60;	Conservative 42;	Mismatches 97;	Indels 94;	Gaps 13;
QY 14	LGVYHDGKLEYHW-----RIETSRHKTEDEFGMILRSLFDHSGL-----	52		
Db 179	VGILHTGVPHHYWGAEGAGETELEFSKRRAAELEALLREGPDTIGAFIAEPVLGTGGITP	238		
QY 53	-----MFEQIDGIILSSVV-----PPIMFALERMCTKYFH	82		
Db 239	PPEGYWPAIQEVLKKYDVLIIADEVITGFGRGSMFGSHQHYGIEPDLITVAKGLTSAVFP	298		
QY 83	IEPQIVGPGMKTGLNIKYNPNKEVGADRIVNAVAAIHLY-GNPLIVDFGTATTYCYID-	140		
Db 299	LSGAIVGEKYVTVM-----EDGADR-VGAFSHGYTYSGHPI-----GAAAAANAVLDI	344		
QY 141	-ENKQYMGGAIAPGTITISTEALYSRAAKLPRIETRPDNIIGKNTVSAMQSGILFVVGQ	199		
Db 345	VEKEDLPGNAQAVG-SYFQEQLKAKFAQLP-----IVGE-----VRGV--GLMGA	386		
QY 200	VEGIVKRMK-----WQAKQDLKVIATGGLAPLIANESDCIDIVDPFLTK	244		
Db 387	IEFVADREKKTRFAPHLTVGARVSKAARNGLIARAMPHGDIILGFAPPLVTTK	439		

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OM protein - protein search, using sw model

Run on: June 18, 2003, 09:59:55 ; Search time 108 Seconds
(without alignments)
610.001 Million cell updates/sec

Title: US-09-813-453A-2
Perfect score: 1335
Sequence: 1 LLLVIDVGNTNTVLGVYHVG.....PFTLKGLELIYERNRGSV 258

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1156168 seqs, 255349102 residues

Total number of hits satisfying chosen parameters: 1156168

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New.*
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	655	49.1	265	US-10-156-761-12224	Sequence 12224, A
2	181.5	13.6	249	US-10-431-652-4748	Sequence 4748, Ap
3	150	11.2	592	US-10-320-800-48	Sequence 48, Appl
4	133	10.0	253	US-10-366-683-21337	Sequence 21337, A
5	133	10.0	253	US-10-419-128-21337	Sequence 21337, A
6	116.5	8.7	223	US-10-335-977-8237	Sequence 8237, Ap
7	101.5	7.6	208	US-10-369-493-238	Sequence 238, App
8	95.5	7.2	242	US-10-282-122A-57505	Sequence 57505, A
9	95	7.1	467	US-10-369-493-11410	Sequence 11410, A
10	95	7.1	467	US-10-369-493-14645	Sequence 14645, A
11	95	7.1	467	US-10-369-493-15113	Sequence 15113, A
12	94	7.0	467	US-10-369-493-14218	Sequence 14218, A
13	91.5	6.9	828	US-10-369-493-17640	Sequence 17640, A
14	91.5	6.9	832	US-10-369-493-9316	Sequence 9316, Ap
15	90.5	6.8	850	US-10-369-493-9427	Sequence 9427, Ap
16	89.5	6.7	208	US-10-369-493-178	Sequence 178, App
17	88.5	6.6	1089	US-10-369-493-8991	Sequence 8991, Ap
18	88	6.6	256	US-10-324-967-10	Sequence 10, Appl
19	88	6.6	311	US-10-366-683-23527	Sequence 23527, A
20	88	6.6	311	US-10-419-128-23527	Sequence 23527, A
21	87	6.5	450	US-10-282-122A-60269	Sequence 60269, A
22	87	6.5	454	US-10-446-203-11055	Sequence 11055, A
23	86.5	6.5	243	PCT-US01-43607-16	Sequence 16, Appl
24	86.5	6.5	243	US-10-432-443-16	Sequence 16, Appl
25	86.5	6.5	523	US-60-427-166-56	Sequence 56, Appl
26	86	6.4	1011	US-10-366-683-22505	Sequence 22505, A

27	86	6.4	1011	6	US-10-419-128-22505	Sequence 22505, A
28	85	6.4	336	6	US-10-369-493-787	Sequence 787, App
29	85	6.4	349	6	US-10-417-886-6817	Sequence 6817, Ap
30	84	6.3	450	6	US-10-282-122A-56157	Sequence 56157, A
31	84	6.3	534	6	US-10-369-493-10987	Sequence 10987, A
32	83.5	6.3	221	6	US-10-282-122A-72948	Sequence 72948, A
33	83.5	6.3	256	6	US-10-369-493-13786	Sequence 13786, A
34	83.5	6.3	315	6	US-10-424-599-225859	Sequence 225859, A
35	83.5	6.3	450	6	US-10-282-122A-75495	Sequence 75495, A
36	83.5	6.3	482	6	US-10-369-493-10602	Sequence 10602, A
37	83	6.2	442	6	US-10-437-963-171803	Sequence 171803, A
38	83	6.2	480	6	US-10-282-122A-62885	Sequence 62885, A
39	83	6.2	480	6	US-10-417-886-8004	Sequence 8004, Ap
40	82.5	6.2	323	6	US-10-282-122A-52511	Sequence 52511, A
41	82.5	6.2	420	6	US-10-425-114-36713	Sequence 36713, A
42	82.5	6.2	450	6	US-10-282-122A-75276	Sequence 75276, A
43	82	6.1	446	6	US-10-282-122A-52516	Sequence 52516, A
44	82	6.1	499	6	US-10-282-122A-48505	Sequence 48505, A
45	81.5	6.1	312	6	US-10-369-493-23032	Sequence 23032, A

ALIGNMENTS

RESULT 1
US-10-156-761-12224
; Sequence 12224, Application US/10156761
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12224
; LENGTH: 265
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12224

Query Match 49.1%; Score 655; DB 6; Length 265;
Best Local Similarity 51.7%; Pred. NO. 4.1e-57;
Matches 135; Conservative 42; Mismatches 76; Indels 8; Gaps 3;

QY	1	LLLVIDVGNTNTVLGVYHDKLEYHWRIETSRHKTEDEFGMILRSLFDHSLMFEQ----	56
		: : : : : : : : :	
Db	1	MLLTIDVGNTHTVLGLFDGEDIVEHWRISTDARRTADELAVLQGLMGHPLLGEELGDG	60
QY	57	IDGIITSSVVPPIMFALERMCTKYFHIEPQI-VGPGMKTGLNIKYDNPKEVGADRIINAV	115
		: :	
Db	61	IDGIAICSTVSPSVLHELREVTTRYIGDVPVAVLVEPGIKTGPILMDNPKEVGADRIINAV	120
QY	116	AAIHLXGNPLIWDFGTATTTCYIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIEITR	175
		: : :	
Db	121	AAVELYGGPAIVDFGTATTTFDAVSARGEYAGGVIAPIGIEISVEALGVGAQLRKIELAR	180
QY	176	PDNIIGKNTVSAMQSGILFGYGVQVEGIVKRMKWA---KQDLKVIATGGLAPLIANESD	232
		: : : : : : : : : : :	
Db	181	PRAVIGKNTVEAMQAGIVYGFAGQVDGVVTRMARELADDDPDVTVIATGGLAPMVLGAS	240
QY	233	CIDIVDPFLTGLGLELIYERN 253	
		:	
Db	241	VIDEHEPWLTLGLRLYERN 261	

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; REGISTRATION NUMBER: 29,772
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 258-5200
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3898 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; DS-08-876-991-2

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Query Match	5.8%;	Score 78;	DB 2;	Length 3898;
Best Local Similarity	20.7%;	Pred. No. 51;		
Matches 45;	Conservative 35;	Mismatches 73;	Indels 64;	Gaps 11;

QY	20	GKLEYHW-RIETSRHKTEDEFGMILR-----SLFDHSGLMFEQID---GIILSSVVP	67
		: : :: : : :: :: :: : :	
Db	2113	GSKDYHYDLLQAQRYGIEDGINITKSFREMYDWSLYEEDSLMITQLEILNNLLISELP	2172
QY	68	PIMFALERMCTKYFFHIEP-----QIVGPGMKTG-LNIKYDNPKEVGADRIVNA	114
		:: :: : : : : : : : : : : :	
Db	2173	---MAVKNIMARTDHPPIQLAYNSYETQVPVLPFKIRNGEVTDTYDNTFLNARKLGDD	2229
QY	115	VAAIHLYGNPLIVVDFGTATTYYCIDENKQYMGAIA-----PGITISTEALYSRAAKLP	169
		: : : : : : : : : : :	
Db	2230	V-----PPYVYATEDEDELAVELLGLDWPDPGNQGTVEA--GRALK--	2267
QY	170	RIEITRPDNIIGKNTVSAMQSGILFGYVGQVEGIVKR	206
		: : : : : : : : : : : : :	
Db	2268	-----QVVGLSTAENALLVALFGYVG-YQALSKR	2295

Search completed: June 18, 2003, 10:01:34
Job time : 17 secs

APPLICANT: MENGEL-WHERSAT, STEPHANIE A
TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS
TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED
TITLE OF INVENTION: THEREON
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT
STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/031,655
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/219,262
FILING DATE: 29-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2747-047-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1012 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Infectious bursal disease virus
STRAIN: DS326
US-09-031-655-2
Query Match 5.8%; Score 78; DB 3; Length 1012;
Best Local Similarity 23.8%; Pred. No. 6.1;
Matches 39; Conservative 22; Mismatches 67; Indels 36; Gaps 6;
QY 97 NIKYDNPKEVGADRIVNAVAIHLGNPLIVVDF-GTATTTCYIDENKQYMGGAIAPIGT 155
Db 233 NIDATSLSVGGELVFKTSVQSLVGATYILIGFDGTAVITRAVAANN-----GLT 283
QY 156 ISTEALYSRAAKLPRIETRPDNIIGNKNTVMSAMQSGILFGYVQVEGIVKRMKWAQKDL 215
Db 284 AGTDNLMFPNVLVIPTNEITQP-----ITSIKLKIVTSKSGLEG--DOMSWSASGSL 333
QY 216 KVIATGGGLAPLIANESDCIDIVDPFLLKGLLELI-YERNRVGSV 258
Db 334 AVTIHGGNYP-----GALRPVTLVAYERVATGSV 362
RESULT 14
US-08-937-102-2
Sequence 2, Application US/08937102A
Patent No. 5965134
GENERAL INFORMATION:
APPLICANT: Thiel, Heinz-Jürgen
APPLICANT: Elpers, Knut
APPLICANT: Pauly, Thomas
TITLE OF INVENTION: T Cell Stimulating Protein of Pestivirus
FILE REFERENCE: I/94108
CURRENT APPLICATION NUMBER: US/08/937,102A
CURRENT FILING DATE: 1997-09-24

EARLIER APPLICATION NUMBER: 08/693,247
EARLIER FILING DATE: 1996-08-16
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 1213
TYPE: PRT
ORGANISM: Classical Swine Fever Virus
US-08-937-102-2
Query Match 5.8%; Score 78; DB 2; Length 1213;
Best Local Similarity 20.7%; Pred. No. 8.1;
Matches 45; Conservative 35; Mismatches 73; Indels 64; Gaps 11;
QY 20 GKLEYHW-RIETSRHKTEDEFGMILR-----SLFDHSGLMFEQID---GIIISVVVP 67
Db 983 GSKDYHYDLLQAOYGIEDGINITKSFREMNVDWSLYEEDSLMITQLEILNLLISELP 1042
QY 68 PIMFALERMCTKYFHIEP-----QIVGPMKMG-LNIKYDNPKEVGADRIVNA 114
Db 1043 ---MAVKNIMARTDHPPIQLAYNSYETQVPVLPFKIRNGEVTDTYDNTFLNARKLGDD 1099
QY 115 VAAIHLGNPLIVVDFGTATTTCYIDENKQYMGGAIA-----PGITISTEALYSRAAKLP 169
Db 1100 V-----PPYVYATEDEDLAVELLGLDWDPPGNQGTVEA--GRALK-- 1137
QY 170 RIEITRPDNIIGNKNTVMSAMQSGILFGYVQVEGIVKVR 206
Db 1138 -----QVVGILSTAENALLVALFGYVG-YQALSKR 1165
RESULT 15
US-08-876-991-2
Sequence 2, Application US/08876991
Patent No. 5925360
GENERAL INFORMATION:
APPLICANT: Gregor Meyers, Tillmann R menapf,
APPLICANT: Heinz-J rgen Thiel
TITLE OF INVENTION: Hog cholera virus vaccine and diagnostic
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Organon Teknika Corporation
ADDRESSEE: Biotechnology Research Institute
STREET: 1330-A Piccard Drive
CITY: Rockville
STATE: Maryland
COUNTRY: U.S.A.
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/876,991
FILING DATE: 16-JUN-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/747,577
FILING DATE:
APPLICATION NUMBER: US/08/650,584
FILING DATE:
APPLICATION NUMBER: US/08/469,702
FILING DATE:
APPLICATION NUMBER: US/08/123,596
FILING DATE:
APPLICATION NUMBER: 07/797,554
FILING DATE: 22-NOV-1991
APPLICATION NUMBER: US 07/494,991
FILING DATE: 16-MAR-1990
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: William M. Blackstone

Db 655 GSHKTFCHWEHDSHAQLRWSVLTSK-----TGPIQDHTGDGNFIYSQADENQK GK 704

QY 61 IISVVPPIMFALERMC-TKYFHIEPQIVPGMKTLGNIKYDNPKEVGADRIVNAVA--- 116

Db 705 VARLVSPVVSQSSAHCMFTWYHMSGSHVG---TLRVKLRYQKPEEY--DQLVWVVGHQ 759

QY 117 -----AIHLYGNPLIVVDFGTATTTCYIDENKQYMGGAIAPGITISTEALYS 163

Db 760 GDHWKEGRVLLHKSLLYQ---VIFEG-----EIGKGNLGGIAVDDISINNHISQE 807

QY 164 RAAKLPRIEITRPDNIIGKNT-VSAMQSGILFGYVQVQEG 202

Db 808 DCAK-----PTDLDKNTEIKIDETGSTPGYEGEG 839

RESULT 11

US-07-944-943-2

; Sequence 2, Application US/07944943

; Patent No. 5518724

; GENERAL INFORMATION:

; APPLICANT: SNYDER, DAVID B.

; APPLICANT: VAKHARIA, VIKRAM

; TITLE OF INVENTION: NOVEL INFECTIOUS BURSAL DISEASE VIRUS

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,

; ADDRESSEE: P.C.

; STREET: 1755 S. Jefferson Davis Highway, Suite 400

; CITY: Arlington

; STATE: Virginia

; COUNTRY: U.S.A.

; ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/944,943

FILING DATE: 19920915

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Kelber, Steven B.

REGISTRATION NUMBER: 30,073

REFERENCE/DOCKET NUMBER: 2284-029-0 CIP

TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1012 amino acids

TYPE: AMINO ACID

TOPOLOGY: linear

MOLECULE TYPE: protein

US-07-944-943-2

Query Match 5.8%; Score 78; DB 1; Length 1012;

Best Local Similarity 23.8%; Pred. No. 6.1;

Matches 39; Conservative 22; Mismatches 67; Indels 36; Gaps 6;

QY 97 NIKYDNPKEVGADRIVNAVAIAHLYGNPLIVVDF-GTATTTCYIDENKQYMGGAIAPGIT 155

Db 233 NIDAITSLVSGGELVFKTSVQSLVLGATIIYLIGFDGTAVITRAVAANN-----GLT 283

QY 156 ISTEALYSRAAKLPRIEITRPDNIIGKNTVSAMQSGILFGYVQVQEGIVKRMKWQAKQDL 215

Db 284 AGTDNLMPFNLVPIPTNEITQP-----ITSIKLKIVTSKSGGLEG--DQMSWSASGSL 333

QY 216 KVIATGGLAPLIANESDCIDIVDPFLLTKGLELI-YERNRVGSV 258

Db 334 AVTIHGGNYP-----GALRPVTLVAYERVATGSV 362

RESULT 12

US-08-219-262B-2

; Sequence 2, Application US/08219262B

; Patent No. 5788970

; GENERAL INFORMATION:

; APPLICANT: VAKHARIA, VIKRAM

; APPLICANT: SNYDER, DAVID B

; APPLICANT: MENGEL-WHERSAT, STEPHANIE A

; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS

; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED

; TITLE OF INVENTION: THEREON

; NUMBER OF SEQUENCES: 15

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT

; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR

; CITY: ARLINGTON

; STATE: VIRGINIA

; COUNTRY: USA

; ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/219,262B

FILING DATE: 29-MAR-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: OBLON, NORMAN F

REGISTRATION NUMBER: 24,618

REFERENCE/DOCKET NUMBER: 2747-047-27

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1012 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Infectious bursal disease virus

STRAIN: DS326

US-08-219-262B-2

Query Match 5.8%; Score 78; DB 1; Length 1012;

Best Local Similarity 23.8%; Pred. No. 6.1;

Matches 39; Conservative 22; Mismatches 67; Indels 36; Gaps 6;

QY 97 NIKYDNPKEVGADRIVNAVAIAHLYGNPLIVVDF-GTATTTCYIDENKQYMGGAIAPGIT 155

Db 233 NIDAITSLVSGGELVFKTSVQSLVLGATIIYLIGFDGTAVITRAVAANN-----GLT 283

QY 156 ISTEALYSRAAKLPRIEITRPDNIIGKNTVSAMQSGILFGYVQVQEGIVKRMKWQAKQDL 215

Db 284 AGTDNLMPFNLVPIPTNEITQP-----ITSIKLKIVTSKSGGLEG--DQMSWSASGSL 333

QY 216 KVIATGGLAPLIANESDCIDIVDPFLLTKGLELI-YERNRVGSV 258

Db 334 AVTIHGGNYP-----GALRPVTLVAYERVATGSV 362

RESULT 13

US-09-031-655-2

; Sequence 2, Application US/09031655

; Patent No. 6017759

; GENERAL INFORMATION:

; APPLICANT: VAKHARIA, VIKRAM

; APPLICANT: SNYDER, DAVID B

COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,181A
FILING DATE: 23-Jul-1993
CLASSIFICATION: 424
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US94-08326-8

Query Match 5.9%; Score 79; DB 4; Length 361;
Best Local Similarity 20.1%; Pred. No. 0.91;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;
QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIIISVVPPIMFAL 73
Db 119 VKLGRAKTIADGITS AEDKEYGVLNNSDYIPTSGNTVGYTFKIDGLVLA---NYLLAQ 175
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKKEVGADRIVNAVAIAHLYGNPLIVVDFGTA 133
Db 176 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIAYGR-----222
QY 134 TTYCY--IDENKQYMGGAIAIP-----GITISTEALYSRAAKLP-----R 170
Db 223 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 282
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 283 YELMEDTNVYGNFKYERTSVTDQGEKTRQAVLFG 316

RESULT 7
PCT-US94-08326-8
Sequence 8, Application PC/TUS9408326
GENERAL INFORMATION:
APPLICANT: North American Vaccine, Inc.
APPLICANT: 12103 Indian Creek Court
APPLICANT: Beltsville, MD 20705
APPLICANT: Pullen, Jeffrey K.
APPLICANT: Soper, Thomas S.
APPLICANT: Liang, Shu-Mei
TITLE OF INVENTION: A Method For The High Level Expression,
TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane
TITLE OF INVENTION: Protein
TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/08326

FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/096,181
FILING DATE: 23-JULY-1993
ATTORNEY/AGENT INFORMATION:
NAME: Esmond, Robert W.
REFERENCE/DOCKET NUMBER: 1438.001PC01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US94-08326-8

Query Match 5.9%; Score 79; DB 5; Length 361;
Best Local Similarity 20.1%; Pred. No. 0.91;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;
QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIIISVVPPIMFAL 73
Db 119 VKLGRAKTIADGITS AEDKEYGVLNNSDYIPTSGNTVGYTFKIDGLVLA---NYLLAQ 175
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKKEVGADRIVNAVAIAHLYGNPLIVVDFGTA 133
Db 176 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIAYGR-----222
QY 134 TTYCY--IDENKQYMGGAIAIP-----GITISTEALYSRAAKLP-----R 170
Db 223 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 282
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 283 YELMEDTNVYGNFKYERTSVTDQGEKTRQAVLFG 316

RESULT 8
US-08-096-181A-10
Sequence 10, Application US/08096181A
Patent No. 6153406
GENERAL INFORMATION:
APPLICANT: Tai, Joseph Y.
APPLICANT: Pullen, Jeffrey K.
APPLICANT: Soper, Thomas S.
APPLICANT: Liang, Shu-Mei
TITLE OF INVENTION: A Method For The High Level Expression,
TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,181A
FILING DATE: 23-Jul-1993
CLASSIFICATION: 424
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 10:

; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane
; TITLE OF INVENTION: Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/08326
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/096,181
; FILING DATE: 23-JULY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REFERENCE/DOCKET NUMBER: 1438.001PC01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US94-08326-12
;
; Query Match 5.9%; Score 79; DB 5; Length 342;
; Best Local Similarity 20.1%; Pred. No. 0.83;
; Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;
;
; QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIISSVVPIMFAL 73
; Db 100 VKLGRAKTIADGITS AEDKEYGVLNNSDYIPTSGNTVGYTFKGIDGLVGA---NYLLAQ 156
;
; QY 74 ERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAAIHLYGNPLIVVDFGTA 133
; Db 157 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIAYGR-----203
;
; QY 134 TTYCY--IDENKQYMGGAIAP-----GITISTEALYSRAAKLP-----R 170
; Db 204 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 263
;
; QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
; Db 264 YELMEDTNVYGNFKYERTSVDDQGEKTRQAVLFG 297
;
; RESULT 5
; PCT-US94-08326-14
; Sequence 14, Application PC/TUS9408326
; GENERAL INFORMATION:
; APPLICANT: North American Vaccine, Inc.
; APPLICANT: 12103 Indian Creek Court
; APPLICANT: Beltsville, MD 20705
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression
; TITLE OF INVENTION: Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane
; TITLE OF INVENTION: Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b

; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/08326
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/096,181
; FILING DATE: 23-JULY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REFERENCE/DOCKET NUMBER: 1438.001PC01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US94-08326-14
;
; Query Match 5.9%; Score 79; DB 5; Length 342;
; Best Local Similarity 20.1%; Pred. No. 0.83;
; Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;
;
; QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIISSVVPIMFAL 73
; Db 100 VKLGRAKTIADGITS AEDKEYGVLNNSDYIPTSGNTVGYTFKGIDGLVGA---NYLLAQ 156
;
; QY 74 ERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKEVGADRIVNAVAAIHLYGNPLIVVDFGTA 133
; Db 157 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIAYGR-----203
;
; QY 134 TTYCY--IDENKQYMGGAIAP-----GITISTEALYSRAAKLP-----R 170
; Db 204 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 263
;
; QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
; Db 264 YELMEDTNVYGNFKYERTSVDDQGEKTRQAVLFG 297
;
; RESULT 6
; US-08-096-181A-8
; Sequence 8, Application US/08096181A
; Patent No. 6153406
; GENERAL INFORMATION:
; APPLICANT: Tai, Joseph Y.
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.

Db 97 DVCIGCRYCHMACPYGAP-----QYNETKGHTKCDGCVDRVAEGKKPICVESCPRLR 148
QY 127 VVDFGTATTCYIDENKQYMG--GAIAPGITISTEALYSRAAKLPRIETRPDNIIGKNT 184
Db 149 ALDFGP-----IDELRKKHGLAAVAP-----RA--LPRAHFTKP-NIVIKPN 188
QY 185 VSAMQSGILFGYV 197
Db 189 ANSRPTGDTTGYL 201
RESULT 2
US-08-096-181A-12
; Sequence 12, Application US/08096181A
; Patent No. 6153406
; GENERAL INFORMATION:
; APPLICANT: Tai, Joseph Y.
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/096,181A
; FILING DATE: 23-Jul-1993
; CLASSIFICATION: 424
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-096-181A-12
Query Match 5.9%; Score 79; DB 4; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;
QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIIISVVPPIMFAL 73
Db 100 VKLGRAKTIADGITS AEDKEYGVLNNSDYIPTSGNTVGYTFKGDGLVLA---NYLLAQ 156
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNLIKYNPKYVGADRIVNAVAHLYGNPLIVVDFGTA 133
Db 157 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIAYGR----- 203
QY 134 TTYCY--IDENKQYMGGAIAP-----GITISTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 264 YELMEDTNVYGNFKYERTSV DQGEKTR EQAVLFG 297

RESULT 3
US-08-096-181A-14
; Sequence 14, Application US/08096181A
; Patent No. 6153406
; GENERAL INFORMATION:
; APPLICANT: Tai, Joseph Y.
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level Expression,
; TITLE OF INVENTION: Purification And Refolding Of The Outer Membrane Protein
; TITLE OF INVENTION: P2 From Haemophilus Influenzae Type b
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/096,181A
; FILING DATE: 23-Jul-1993
; CLASSIFICATION: 424
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-096-181A-14
Query Match 5.9%; Score 79; DB 4; Length 342;
Best Local Similarity 20.1%; Pred. No. 0.83;
Matches 43; Conservative 38; Mismatches 71; Indels 62; Gaps 10;
QY 28 IETSRHKT-----EDEFGMILRSLF-----DHSGLMFEQIDGIIISVVPPIMFAL 73
Db 100 VKLGRAKTIADGITS AEDKEYGVLNNSDYIPTSGNTVGYTFKGDGLVLA---NYLLAQ 156
QY 74 ERMCTKYFHIEPQIVGPGMKTGLNLIKYNPKYVGADRIVNAVAHLYGNPLIVVDFGTA 133
Db 157 KREGAKGENKRPNDKAGEVRIG---EINNGIQVGAKYDANDIVAKIAYGR----- 203
QY 134 TTYCY--IDENKQYMGGAIAP-----GITISTEALYSRAAKLP-----R 170
Db 204 TNYKYNESDEHKQQLNGVLATLGYRFSDLGLLVSLDSGYAKTKNYKIKHEKRYFVSPGFQ 263
QY 171 IEITRPDNIIG-----KNTV-----SAMQSGILFG 195
Db 264 YELMEDTNVYGNFKYERTSV DQGEKTR EQAVLFG 297
RESULT 4
PCT-US94-08326-12
; Sequence 12, Application PC/TUS9408326
; GENERAL INFORMATION:
; APPLICANT: North American Vaccine, Inc.
; APPLICANT: 12103 Indian Creek Court
; APPLICANT: Beltsville, MD 20705
; APPLICANT: Pullen, Jeffrey K.
; APPLICANT: Soper, Thomas S.
; APPLICANT: Liang, Shu-Mei
; TITLE OF INVENTION: A Method For The High Level
; TITLE OF INVENTION: Expression,

Db 181 GKNTVSAMQSGILFGYGVQVEGIVKRMKWQAKQDLKVIATGGLAPLIANESDCIDIVDPF 240
QY 241 LTLKGLELIYERNRVGSV 258
Db 241 LTLKGLELIYERNRVGSV 258

RESULT 2
US-09-813-453A-17
; Sequence 17, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-813-453A-17

Query Match 83.4%; Score 1114; DB 9; Length 233;
Best Local Similarity 99.5%; Pred. No. 7.9e-107;
Matches 213; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 LLLVIDVGNNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
Db 1 MLLVIDVGNNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNPKYDNPKEVGADRIVNAVAIHL 120
Db 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNPKYDNPKEVGADRIVNAVAIHL 120
QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGNPLIVDFGTATTCYIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
QY 181 GKNTVSAMQSGILFGYGVQVEGIVKRMKWQAKQD 214
Db 181 GKNTVSAMQSGILFGYGVQVEGIVKRMKWQAKQD 214

RESULT 3
US-09-813-453A-49
; Sequence 49, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49
; LENGTH: 258
; TYPE: PRT

; ORGANISM: Bacillus stearothermophilus
US-09-813-453A-49
Query Match 78.4%; Score 1046; DB 9; Length 258;
Best Local Similarity 78.3%; Pred. No. 9.3e-100;
Matches 198; Conservative 32; Mismatches 23; Indels 0; Gaps 0;
QY 1 LLLVIDVGNNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
Db 1 MIFVLDVGNNTVLGVYDDELKHHWRIETSRKTEDEYGMIMKALLNHVGLQFSDIRGI 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNPKYDNPKEVGADRIVNAVAIHL 120
Db 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNPKYDNPKEVGADRIVNAVAIHL 120
QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGSPLIIVDFGTATTCYINEHKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
QY 181 GKNTVSAMQSGILFGYGVQVEGIVKRMKWQAKQDLKVIATGGLAPLIANESDCIDIVDPF 240
Db 181 GKNTVSAMQSGILFGYGVQVEGIVSRMKAKSKIPPKVIATGGLAPLIASESDIIVVDPF 240
QY 241 LTLKGLELIYERN 253
Db 241 LTLTGLKLLYEKN 253

RESULT 4
US-09-813-453A-45
; Sequence 45, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45
; LENGTH: 262
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-09-813-453A-45

Query Match 77.5%; Score 1034; DB 9; Length 262;
Best Local Similarity 75.1%; Pred. No. 1.6e-98;
Matches 190; Conservative 34; Mismatches 29; Indels 0; Gaps 0;
QY 1 LLLVIDVGNNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
Db 1 MIFVLDVGNNTVLGVFEEGELRQHRMETDRHKTEDEYGMILVKQLLEHGLSEDEVKGI 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNPKYDNPKEVGADRIVNAVAIHL 120
Db 61 IVSSVVPPIMFALERMCTKYFKIKPLVVGPGIKTGLNPKYENPREVGADRIVNAVAIHL 120
QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGSPLIIVDFGTATTCYINEEKHYMGVITPIMISAEALYSRAAKLPRIETKPSVW 180
QY 181 GKNTVSAMQSGILFGYGVQVEGIVKRMKWQAKQDLKVIATGGLAPLIANESDCIDIVDPF 240
Db 181 GKNTVSAMQSGILFGYGVQVEGIVKRMKEAKQEPKVIATGGLAKLISEESNVIDVDPF 240
QY 241 LTLKGLELIYERN 253

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OM protein - protein search, using sw model

Run on: June 18, 2003, 10:00:25 ; Search time 50 Seconds
(without alignments)
558.347 Million cell updates/sec

Title: US-09-813-453A-2
Perfect score: 1335
Sequence: 1 LLLVIDVGNTNTVLGVYHDG.....PFTLKGLELIYERNRGSV 258

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1335	100.0	258	9	US-09-813-453A-2	Sequence 2, Appli
2	1114	83.4	233	9	US-09-813-453A-17	Sequence 17, Appl
3	1046	78.4	258	9	US-09-813-453A-49	Sequence 49, Appl
4	1034	77.5	262	9	US-09-813-453A-45	Sequence 45, Appl
5	987	73.9	254	9	US-09-813-453A-47	Sequence 47, Appl
6	794.5	59.5	256	9	US-09-813-453A-55	Sequence 55, Appl
7	756	56.6	255	9	US-09-813-453A-7	Sequence 7, Appli
8	655	49.1	265	9	US-09-813-453A-4	Sequence 4, Appli
9	646.5	48.4	250	9	US-09-813-453A-3	Sequence 3, Appli
10	577	43.2	260	9	US-09-813-453A-51	Sequence 51, Appl
11	537	40.2	258	9	US-09-813-453A-6	Sequence 6, Appli
12	515	38.6	219	9	US-09-813-453A-57	Sequence 57, Appl
13	494.5	37.0	272	9	US-09-813-453A-5	Sequence 5, Appli
14	493.5	37.0	272	9	US-09-712-363-276	Sequence 276, App
15	428	32.1	262	9	US-09-813-453A-8	Sequence 8, Appli
16	405.5	30.4	246	9	US-09-813-453A-9	Sequence 9, Appli
17	338.5	25.4	212	9	US-09-813-453A-59	Sequence 59, Appl
18	327.5	24.5	273	9	US-09-813-453A-10	Sequence 10, Appl
19	319	23.9	257	9	US-09-813-453A-53	Sequence 53, Appl

20	271.5	20.3	262	9	US-09-813-453A-11	Sequence 11, Appl
21	207	15.5	244	9	US-09-813-453A-41	Sequence 41, Appl
22	203	15.2	241	9	US-09-813-453A-63	Sequence 63, Appl
23	163	12.2	249	9	US-09-813-453A-70	Sequence 70, Appl
24	163	12.2	257	9	US-09-813-453A-13	Sequence 13, Appl
25	154.5	11.6	229	9	US-09-813-453A-12	Sequence 12, Appl
26	154	11.5	249	9	US-09-813-453A-61	Sequence 61, Appl
27	151	11.3	460	9	US-09-813-453A-39	Sequence 39, Appl
28	150	11.2	592	9	US-09-813-453A-22	Sequence 22, Appl
29	150	11.2	592	9	US-09-813-453A-43	Sequence 43, Appl
30	134.5	10.1	242	9	US-09-813-453A-65	Sequence 65, Appl
31	133	10.0	248	9	US-09-813-453A-20	Sequence 20, Appl
32	129.5	9.7	267	9	US-09-813-453A-15	Sequence 15, Appl
33	109.5	8.2	223	9	US-09-895-913A-74	Sequence 74, Appl
34	109.5	8.2	223	9	US-09-813-453A-14	Sequence 14, Appl
35	109.5	8.2	223	9	US-09-813-453A-67	Sequence 67, Appl
36	109	8.2	209	9	US-09-813-453A-21	Sequence 21, Appl
37	80	6.0	449	10	US-09-815-242-5474	Sequence 5474, Ap
38	80	6.0	449	10	US-09-815-242-12348	Sequence 12348, A
39	80	6.0	449	10	US-09-815-242-12793	Sequence 12793, A
40	79	5.9	636	10	US-09-205-658-160	Sequence 160, App
41	78.5	5.9	337	9	US-10-075-846-12	Sequence 12, Appl
42	78.5	5.9	776	10	US-09-815-242-13811	Sequence 13811, A
43	78.5	5.9	1057	10	US-09-815-242-5798	Sequence 5798, Ap
44	78.5	5.9	1107	10	US-09-815-242-12815	Sequence 12815, A
45	78.5	5.9	1198	10	US-09-815-242-12446	Sequence 12446, A

ALIGNMENTS

RESULT 1

US-09-813-453A-2
; Sequence 2, Application US/09813453A
; Patent No. US20020168681A1
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OG2-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-813-453A-2

Query Match 100.0%; Score 1335; DB 9; Length 258;
Best Local Similarity 100.0%; Pred. No. 1.5e-129;
Matches 258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	LLLVIDVGNTNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMLRSFLDHSGLMFEQIDGI	60
Db	1	LLLVIDVGNTNTVLGVYHDGKLEYHWRIETSRHKTEDEFGMLRSFLDHSGLMFEQIDGI	60
QY	61	IISWVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNICYDNPKVEGADRVNAAIHL	120
Db	61	IISWVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNICYDNPKVEGADRVNAAIHL	120
QY	121	YGNPLIVVDFGTATTCYIDENKQYMGGAIAPIGISTEALYSRAAKLPRIETRPDNI	180
Db	121	YGNPLIVVDFGTATTCYIDENKQYMGGAIAPIGISTEALYSRAAKLPRIETRPDNI	180
QY	181	GKNTVSAMQSGILFYGVGQEGIVKRMKWQAKQDLKVIATGGGLAPLIANESDCIDIVDPF	240

Db 1 MILVIDGNTNTVLGVYQDETIVHHWRLATSRQKTEDEYAMTVRSFLFDHAGLQFQDIDGI 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKKEVGADRIVNAVAIHL 120
Db 61 VISSVPPMFSLQMKCKYFHVTPMIIGPIKTLGNIKYDNPKKEVGADRIVNAVAIHL 120
QY 121 YGNPLIVVDFGTATTCYCIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGYPVIVVDFGTATTCYCLINEKKQYAGGVIAPIGIMISTEALYHRASKLPRIEIAKPKQV 180
QY 181 GKNTVSAMQSGILFGYVQVEGIVKRMKQAKQDLKVIATGGLAPLIANESDCIDIVDPF 240
Db 181 GTNTIDSMQSGIFYGVYQVDGVVKRMAQAESEPKVIATGGLAKLIGTSETIDVIDSF 240
QY 241 LTLKGLELIYERN 253
Db 241 LTLKGLQLIYKKN 253

RESULT 8
US-09-813-453A-55
; Sequence 55, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Clostridium difficile
US-09-813-453A-55

Query Match 59.5%; Score 794.5; DB 22; Length 256;
Best Local Similarity 60.8%; Pred. No. 8.5e-81;
Matches 155; Conservative 40; Mismatches 59; Indels 1; Gaps 1;
QY 1 LLLVIDVGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
Db 1 MLLVFDVGNTNMVLGIYKGDKLNVYWRIKTDREKTSDEYGILISNLFYDYNVNISDIDDV 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKKEVGADRIVNAVAIHL 120
Db 61 IISVVPNVMSLENFCIKYCKKQPLIVGPIKTLGNIKYDNPKQVGADRIVNAVAGIEK 120
QY 121 YGNPLIVVDFGTATTCYCIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
Db 121 YGAPSVLVDFGTATTCFAISEKGEYLGGTIAPGIKISSEALFQSASKLPVELAKPGMTI 180
QY 181 GKNTVSAMQSGILFGYVQVEGIVKRMKQAK-QDLKVIATGGLAPLIANESDCIDIVDP 239
Db 181 CKSTVSAMQSGIIFYGVGLVDKIISIMKKELNCDVVKVIATGGLAKLIASETKSIDVDG 240
QY 240 FLTCLKGLELIYERN 254
Db 241 FLTLEGLRIIYERNQ 255

RESULT 9
US-09-813-453A-7
; Sequence 7, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.

; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Geobacter sulfurreducens
US-09-813-453A-7
Query Match 56.6%; Score 756; DB 22; Length 255;
Best Local Similarity 57.5%; Pred. No. 2e-76;
Matches 146; Conservative 46; Mismatches 62; Indels 0; Gaps 0;
QY 1 LLLVIDVGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
Db 1 MLLVIDVGNTNIVLGIYDGERLVRDWRVSTDKARTTDEYGILINELRAGLDQIRAV 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKKEVGADRIVNAVAIHL 120
Db 61 IISVVVPLTGVLERLSLGYFGMRPLVVGPIKTMPIQYDNPREVGADRIVNAVAGYEK 120
QY 121 YGNPLIVVDFGTATTCYCIDENKQYMGGAIAPIGITISTEALYSRAAKLPRIETRPDNI 180
Db 121 YRTSLIIVDFGTATTFDYVNRKGEYCGGAIAPLVISTEALFQRAASKLPKRVDIIRPSAI 180
QY 181 GKNTVSAMQSGILFGYVQVEGIVKRMKQAKQDLKVIATGGLAPLIANESDCIDIVDPF 240
Db 181 ARNTVNSMQAGIYYGVGLVDEIVTRMKAESKDAPRVATGGLASLIAPESKTIEAVEEY 240
QY 241 LTLKGLELIYERN 254
Db 241 LTLEGLRIIYERNR 254

RESULT 10
US-09-902-540-10676
; Sequence 10676, Application US/09902540
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 10676
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-10676

Query Match 54.9%; Score 733; DB 23; Length 256;
Best Local Similarity 53.8%; Pred. No. 8.2e-74;
Matches 136; Conservative 51; Mismatches 66; Indels 0; Gaps 0;
QY 1 LLLVIDVGNTNTVLGVYHDGKLEYHWRITSRHKTEDEFGMILRSFLDHSGLMFEQIDGI 60
Db 1 MLLAIDVGNTNTVLGVFEGRLLDHRVETSTRRTSDEYGILVRLQFTHRIGIDPMKVTAV 60
QY 61 IISVVPPIMFALERMCTKYFHIEPQIVGPGMKTGLNIKYDNPKKEVGADRIVNAVAIHL 120

Query Match 83.4%; Score 1114; DB 22; Length 233;
Best Local Similarity 99.5%; Pred. No. 3.8e-117;
Matches 213; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LLLVIDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60
Db :|||||
1 MLLVIDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60

QY 61 IISVVPPIMFALERMCYKFIHIEPQIVGPGMKTGLNICYDNPKVGGADRIVNAVAIHL 120
Db :|||||
61 IISVVPPIMFALERMCYKFIHIEPQIVGPGMKTGLNICYDNPKVGGADRIVNAVAIHL 120

QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIPGITISTEALYSRAAKLPRIETRPDNI 180
Db :|||||
121 YGNPLIVDFGTATTCYIDENKQYMGGAIPGITISTEALYSRAAKLPRIETRPDNI 180

QY 181 GKNTVSAMQSGILFGYVQVGVGIVKRMKWQAKQD 214
Db :|||||
181 GKNTVSAMQSGILFGYVQVGVGIVKRMKWQAKQD 214

RESULT 5
US-09-813-453A-49
; Sequence 49, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Bacillus stearothermophilus
US-09-813-453A-49

Query Match 78.4%; Score 1046; DB 22; Length 258;
Best Local Similarity 78.3%; Pred. No. 2.4e-109;
Matches 198; Conservative 32; Mismatches 23; Indels 0; Gaps 0;

QY 1 LLLVIDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60
Db :|||||
1 MIFVLDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60

QY 61 IISVVPPIMFALERMCYKFIHIEPQIVGPGMKTGLNICYDNPKVGGADRIVNAVAIHL 120
Db :|||||
61 IISVVPPIMFALERMCYKFIHIEPQIVGPGMKTGLNICYDNPKVGGADRIVNAVAIHL 120

QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIPGITISTEALYSRAAKLPRIETRPDNI 180
Db :|||||
121 YGNPLIVDFGTATTCYIDENKQYMGGAIPGITISTEALYSRAAKLPRIETRPDNI 180

QY 181 GKNTVSAMQSGILFGYVQVGVGIVKRMKWQAKQD 214
Db :|||||
181 GKNTVSAMQSGILFGYVQVGVGIVKRMKWQAKQD 214

QY 241 LTLKGLELIYERN 253
Db :|||||
241 LTLTGLKLLYERN 253

RESULT 6
US-09-813-453A-45
; Sequence 45, Application US/09813453A
; GENERAL INFORMATION:

; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45
; LENGTH: 262
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-09-813-453A-45

Query Match 77.5%; Score 1034; DB 22; Length 262;
Best Local Similarity 75.1%; Pred. No. 5.6e-108;
Matches 190; Conservative 34; Mismatches 29; Indels 0; Gaps 0;

QY 1 LLLVIDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60
Db :|||||
1 MIFVLDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60

QY 61 IISVVPPIMFALERMCYKFIHIEPQIVGPGMKTGLNICYDNPKVGGADRIVNAVAIHL 120
Db :|||||
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QY 121 YGNPLIVDFGTATTCYIDENKQYMGGAIPGITISTEALYSRAAKLPRIETRPDNI 180
Db :|||||
121 YGNPLIVDFGTATTCYIDENKQYMGGAIPGITISTEALYSRAAKLPRIETRPDNI 180

QY 181 GKNTVSAMQSGILFGYVQVGVGIVKRMKWQAKQD 214
Db :|||||
181 GKNTVSAMQSGILFGYVQVGVGIVKRMKWQAKQD 214

QY 241 LTLKGLELIYERN 253
Db :|||||
241 LTLKGLYMLYERN 253

RESULT 7
US-09-813-453A-47
; Sequence 47, Application US/09813453A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; TITLE OF INVENTION: MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: OGZ-001
; CURRENT APPLICATION NUMBER: US/09/813,453A
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/227,860
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/667,569
; PRIOR FILING DATE: 2000-09-21
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Bacillus halodurans
US-09-813-453A-47

Query Match 73.9%; Score 987; DB 22; Length 254;
Best Local Similarity 72.3%; Pred. No. 1.2e-102;
Matches 183; Conservative 33; Mismatches 37; Indels 0; Gaps 0;

QY 1 LLLVIDVGNNTVVGVDGKLEYHWRHRIETSRHKTDEFGMILRSLEFDSGLMFEQIDGI 60
Db :|||||

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OM protein - protein search, using sw model

Run on: June 18, 2003, 09:59:10 ; Search time 311 seconds
(without alignments)
534.859 Million cell updates/sec

Title: US-09-813-453A-2

Perfect score: 1335

Sequence: 1 LLLVIDVGNFTNVLGVYHDG.....PFTLKGLELIYERNGSM 258

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents_AA Main:*

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- 2: /cgn2_6/ptodata/1/paa/US06_COMB.pep.*
- 3: /cgn2_6/ptodata/1/paa/US07_COMB.pep.*
- 4: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
- 5: /cgn2_6/ptodata/1/paa/US081_COMB.pep.*
- 6: /cgn2_6/ptodata/1/paa/US082_COMB.pep.*
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- 9: /cgn2_6/ptodata/1/paa/US085_COMB.pep.*
- 10: /cgn2_6/ptodata/1/paa/US086_COMB.pep.*
- 11: /cgn2_6/ptodata/1/paa/US087_COMB.pep.*
- 12: /cgn2_6/ptodata/1/paa/US088_COMB.pep.*
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- 24: /cgn2_6/ptodata/1/paa/US100_COMB.pep.*
- 25: /cgn2_6/ptodata/1/paa/US101_COMB.pep.*
- 26: /cgn2_6/ptodata/1/paa/US102_COMB.pep.*
- 27: /cgn2_6/ptodata/1/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1335	100.0	258	20	US-09-667-569A-9
2	1335	100.0	258	22	US-09-813-453A-2
3	1114	83.4	233	20	US-09-667-569A-85
4	1114	83.4	233	22	US-09-813-453A-17
5	1046	78.4	258	22	US-09-813-453A-49
6	1034	77.5	262	22	US-09-813-453A-45

7	987	73.9	254	22	US-09-813-453A-47	Sequence 47, Appl
8	794.5	59.5	256	22	US-09-813-453A-55	Sequence 55, Appl
9	756	56.6	255	22	US-09-813-453A-7	Sequence 7, Appli
10	733	54.9	256	23	US-09-902-540-10676	Sequence 10676, A
11	655	49.1	265	20	US-09-667-569A-7	Sequence 7, Appli
12	655	49.1	265	22	US-09-813-453A-4	Sequence 4, Appli
13	646.5	48.4	250	20	US-09-667-569A-74	Sequence 74, Appl
14	646.5	48.4	250	22	US-09-813-453A-3	Sequence 3, Appli
15	577	43.2	260	22	US-09-813-453A-51	Sequence 51, Appl
16	537	40.2	258	20	US-09-667-569A-75	Sequence 75, Appl
17	537	40.2	258	22	US-09-813-453A-6	Sequence 6, Appli
18	515	38.6	219	22	US-09-813-453A-57	Sequence 57, Appl
19	494.5	37.0	272	20	US-09-667-569A-8	Sequence 8, Appli
20	494.5	37.0	272	22	US-09-813-453A-5	Sequence 5, Appli
21	493.5	37.0	272	21	US-09-712-363-276	Sequence 276, App
22	428	32.1	262	20	US-09-667-569A-10	Sequence 10, Appl
23	428	32.1	262	22	US-09-813-453A-8	Sequence 8, Appli
24	405.5	30.4	246	20	US-09-667-569A-12	Sequence 12, Appl
25	405.5	30.4	246	22	US-09-813-453A-9	Sequence 9, Appli
26	338.5	25.4	212	20	US-09-667-569A-11	Sequence 11, Appl
27	338.5	25.4	212	22	US-09-813-453A-59	Sequence 59, Appl
28	327.5	24.5	273	20	US-09-667-569A-13	Sequence 13, Appl
29	327.5	24.5	273	22	US-09-813-453A-10	Sequence 10, Appl
30	319	23.9	257	22	US-09-813-453A-53	Sequence 53, Appl
31	271.5	20.3	262	20	US-09-667-569A-14	Sequence 14, Appl
32	271.5	20.3	262	22	US-09-813-453A-11	Sequence 11, Appl
33	229	17.2	98	24	US-10-015-127-12286	Sequence 12286, A
34	212	15.9	256	19	US-09-540-209B-6074	Sequence 6074, Ap
35	207	15.5	244	22	US-09-813-453A-41	Sequence 41, Appl
36	203	15.2	241	22	US-09-813-453A-63	Sequence 63, Appl
37	181.5	13.6	249	17	US-09-328-352-4748	Sequence 4748, Ap
38	175	13.1	253	19	US-09-540-236-3014	Sequence 3014, Ap
39	175	13.1	253	27	US-60-128-476-4402	Sequence 4402, Ap
40	163	12.2	249	22	US-09-813-453A-70	Sequence 70, Appl
41	163	12.2	257	20	US-09-667-569A-16	Sequence 16, Appl
42	163	12.2	257	22	US-09-813-453A-13	Sequence 13, Appl
43	154.5	11.6	229	20	US-09-667-569A-15	Sequence 15, Appl
44	154.5	11.6	229	22	US-09-813-453A-12	Sequence 12, Appl
45	154	11.5	249	22	US-09-813-453A-61	Sequence 61, Appl

ALIGNMENTS

RESULT 1
US-09-667-569A-9
; Sequence 9, Application US/09667569A
; GENERAL INFORMATION:
; APPLICANT: Yocum, R. Rogers
; APPLICANT: Patterson, Thomas A.
; APPLICANT: Hermann, Theron
; APPLICANT: Pero, Janice G.
; TITLE OF INVENTION: METHODS AND MICROORGANISMS FOR PRODUCTION OF
; TITLE OF INVENTION: PANTO-COMPOUNDS
; FILE REFERENCE: BGI-141CP
; CURRENT APPLICATION NUMBER: US/09/667,569A
; CURRENT FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: USSN 09/400,494
; PRIOR FILING DATE: 1999-09-21
; PRIOR APPLICATION NUMBER: USSN 60/210,072
; PRIOR FILING DATE: 2000-06-07
; PRIOR APPLICATION NUMBER: USSN 60/221,938
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: USSN 60/227,860
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Bacillus subtilis.
US-09-667-569A-9